

Claims

- [c1] 1. A device for a heat exchanger (1), preferably for co-operation with a gas turbine, where said heat exchanger comprises a number of corrugated plates, where each plate has a first edge part opposite a second edge part and a third edge part opposite a fourth edge part, between the corrugated plates are provided first and second flow channels, where a heat-emitting medium (6) flows through every alternate channel and a heat-absorbing medium (7) flows through every other alternate channel, and where a collecting channel (4) for said heat emitting medium (7) is placed at one side of the heat exchanger and connected to an outlet section of an inlet and outlet pipe joint (2, 3) for said heat-emitting and absorbing media (6, 7) via a pipe section, the outlet pipe joint (3) is positioned at a distance from said side, and said pipe section has a substantially straight section (10, 13), comprising at least one straight sub-section where a first sub-section (10) is deformable both in its axial direction and in all directions transverse to said axial direction, and a partially curved second sub-section (11, 21), and the pipe section has a central load-absorbing through-element (14) attached at its ends

(14a, 14b) to the outer side of the pipe section, whereby the straight section has an inlet end attached to the collection channel (4) and the second sub-section has an outlet end attached to the outlet pipe joint (3).

[c2] 2. The device for a heat exchanger as recited in claim 1, wherein the second sub-section (11, 21) is a curved pipe section, whereby the load-absorbing element (14) is attached to the outer side of the pipe section at a point where the main axis (A) of the straight section intersects the major radius of curvature (R) of the curved pipe section.

[c3] 3. The device for a heat exchanger as recited in claim 1, wherein the second sub-section is a T-pipe section (21), whereby the load-absorbing element (14) is attached to the outer side of a closed end (19) of the transverse section (22) of the T-pipe section at a point where the main axis (A) of the straight section intersects said closed end.

[c4] 4. The device for a heat exchanger as recited in claim 3, wherein the T-pipe section (21) is provided with a deformable fourth section (18) adjacent its closed end (19), which section is deformable in its axial direction.

[c5] 5. The device for a heat exchanger as recited in claim 1,

further comprising a straight fifth sub-section (13) positioned between the deformable first sub-section (10) and the curved second sub-section (11, 21).

[c6] 6. The device for a heat exchanger as recited in claim 1, wherein the deformable first sub-section (10) is positioned between a straight fifth sub-section (13) and the curved second sub-section (11, 21).

[c7] 7. The device for a heat exchanger as recited in claim 1, wherein the straight section (10, 13) is connected to the collection channel (4) by means of a curved third sub-section (12).

[c8] 8. The device for a heat exchanger as recited in claim 1, wherein the straight section is positioned so that an imaginary extension of its outer periphery is radially separated from the outer periphery of the outlet pipe joint.

[c9] 9. The device for a heat exchanger as recited in claim 1, wherein the curved second section (11, 21) is radially connected to the outlet pipe joint (3).

[c10] 10. The device for a heat exchanger as recited in claim 1, wherein the curved second section (11, 21) is tangentially connected to the outlet pipe joint (3).

- [c11] 11. The device for a heat exchanger as recited in claim 1, wherein the curved second section (11, 21) is connected to the outlet pipe joint (3) by a connection (8, 24) aimed in the principal direction of flow of the heat absorbing medium (7) through the outlet pipe joint (3).
- [c12] 12. The device for a heat exchanger as recited in claim 1, wherein the collection channel (4) is provided with a separate pipe section from each end of said collection channel to the outlet pipe joint (3).
- [c13] 13. The device for a heat exchanger as recited in claim 1, wherein the deformable first pipe section (10) has an inner diameter, corresponding to the minimum diameter of the corrugated section, equal to the inner diameter of the adjoining second section (2).